

July 1, 2023

Docket No.: 52-026

ND-23-0567
10 CFR 52.99(c)(1)

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.5.02.06c.i [Index Number 532]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.5.02.06c.i [Index Number 532]. This ITAAC confirms that the Protection and Safety Monitoring System (PMS) provides manual initiation of reactor trip. The closure process for this ITAAC is based on the guidance described in Nuclear Energy Institute (NEI) 08-01, "Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52," which was endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Kelli Roberts at 706-848-6991.

Respectfully submitted,



Jamie M. Coleman
Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.5.02.06c.i [Index Number 532]

JMC /KIK/sfr

U.S. Nuclear Regulatory Commission

ND-23-0567

Page 2 of 2

cc: Regional Administrator, Region II
 Director, Office of Nuclear Reactor Regulation (NRR)
 Director, Vogtle Project Office NRR
 Senior Resident Inspector – Vogtle 3 & 4

Southern Nuclear Operating Company
ND-23-0567
Enclosure

Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.5.02.06c.i [Index Number 532]

ITAAC Statement

Design Commitment

6.c) The PMS provides manual initiation of reactor trip and selected engineered safety features as identified in Table 2.5.2-4.

Inspections/Tests/Analyses

An operational test of the as-built PMS will be performed using the PMS manual actuation controls.

Acceptance Criteria

i) The reactor trip switchgear opens after manual reactor trip controls are actuated.

ITAAC Determination Basis

Multiple ITAAC are performed to verify that the Protection and Safety Monitoring System (PMS) provide manual initiation of reactor trip and selected engineered safety features as identified in Combined License (COL) Appendix C, Table 2.5.2-4 (Attachment A). The subject ITAAC performed operational tests of the reactor trip function using the PMS manual actuation controls.

Operational testing was performed in accordance with Unit 4 preoperational test procedures listed in Reference 1 and confirmed that the reactor trip switchgear opened after manual reactor trip controls were actuated.

A preoperational test procedure verified the Reactor Trip Circuit Breakers (RTCBs) were closed. The reactor trip was then manually actuated at the Primary Dedicated Safety Panel (PDSP) by placing hand switch 4-PMS-HS025, Reactor Trip, in the trip position. Each RTCB was verified to be open locally at the Reactor Trip Switchgear Cabinet, at the Maintenance and Test Panel, and on the Main Control Room displays. Testing was repeated for reactor trip hand switch 4-PMS-HS026. Another preoperational test procedure transferred control from the main control room to the remote shutdown workstation, ensured all RTCBs were closed, then placed the same reactor trip hand switch, 4-PMS-HS025, in the trip position. The RTCBs were then verified open, and the process was repeated for reactor trip hand switch 4-PMS-HS026.

Results of the preoperational testing are documented in Unit 4 preoperational test procedures in Reference 1 and confirm that the reactor trip switchgear opened after manual reactor trip controls were actuated.

Reference 1 is available for NRC inspection as part of Unit 4 ITAAC 2.5.02.06c.i Completion Package (Reference 2).

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company performed a review of all ITAAC findings pertaining to the subject ITAAC and associated corrective actions. This review found there were no relevant ITAAC findings associated with the ITAAC. The review documents are included in the ITAAC Completion Package for ITAAC 2.5.02.06c.i Unit 4 (Reference 2) and is available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.5.02.06c.i was performed for VEGP Unit 4 and that the prescribed acceptance criteria are met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

References (available for NRC inspection)

1. SV4-PMS-ITR-800532, "Unit 4 PMS Provides Manual Initiation of Reactor Trip, ITAAC 2.5.02.06c.i, NRC Index Number: 532"
2. 2.5.02.06c.i-U4-CP-Rev0, ITAAC Completion Package

Attachment A

Table 2.5.2-4 PMS Manually Actuated Functions
Reactor Trip Safeguards Actuation Containment Isolation Depressurization System Stages 1, 2, and 3 Actuation Depressurization System Stage 4 Actuation Feedwater Isolation Core Makeup Tank Injection Actuation Steam Line Isolation Passive Containment Cooling Actuation Passive Residual Heat Removal Heat Exchanger Alignment IRWST Injection Containment Recirculation Actuation Main Control Room Isolation, Air Supply Initiation, and Electrical Load De-energization Steam Generator Relief Isolation Chemical and Volume Control System Isolation Normal Residual Heat Removal System Isolation Containment Vacuum Relief